

EH1000H-4 Nano/Nano⁺

4/8/16CH Embedded Hybrid DVR

Quick User Guide



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WARNING

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

WARRANTY VOID FOR ANY UNAUTHORIZED PRODUCT MODIFICATION.

INFORMATION

For more information, please refer to the user manual in the software CD.

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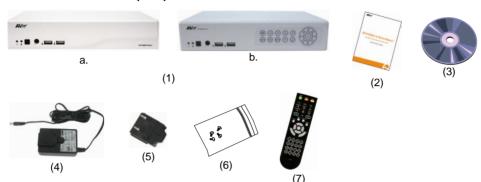
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I. Package Contents



If there is any damage, shortage or inappropriate item in the package contents, please contact with local dealer

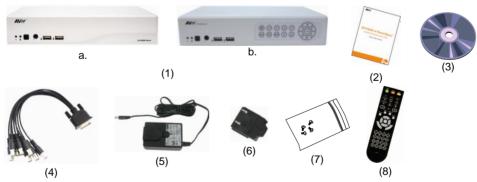
EH1004H-4 Nano/Nano*(4CH)



- (1) DVR unit(4CH)
 - a. EH1004H-4 Nano b. EH1004H-4 Nano+
- (2) Quick Installation Guide
- (3) Software CD (Manual is included)
- (4) Power adaptor

- (5) Power plug (*The power plug may vary according to the local electricity system.)
- (6) Screws for internal HDD installation
- (7) Remote Control

EH1008H-4 Nano/Nano⁺(8CH)

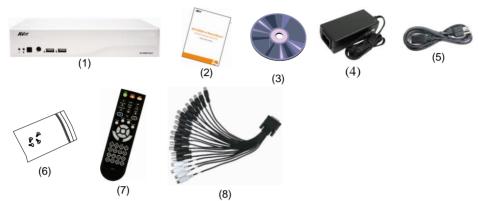


- (1) DVR unit(8CH)
 - a. EH1008H-4 Nano b. EH1008H-4 Nano+
- (2) Quick Installation Guide
- (3) Software CD (Manual is included)
- (4) DVI video cable

- (5) Power adaptor
- (6) Power Plug (*The power plug may vary according to the local electricity system.)
- (7) Screws for internal HDD installation
- (8) Remote Control

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EH1116H-4 Nano(16CH)



- (1) EH1116H-4 Nano
- (2) Quick Installation Guide
- (3) Software CD (Manual is included)
- (4) Power adaptor

- (5) Power Plug (*The power plug may vary according to the local electricity system.)
- (6) Screws for internal HDD installation
- (7) Remote Control
- (8) DVI cable

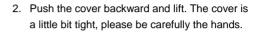
II. **Hardware Installation**

A. Install the hard disk

User can install 1 SATA hard disks inside the DVR unit.

Follow the illustrated instructions below to install the hard disk:

1. Loosen all screws(2 sides and rear side)







3. Turn the cover over and place the SATA hard 4. Screw the hard disk(both side) disk (face down) inside the HDD holder.







5. Hold the cover and connect the power cable and SATA cable to the hard disk.



6. And then, turn the cover over carefully.



the cover back to the DVR unit and be carefully the hard disk that inside the cover.



7. Hold the cover parallel with DVR unit and put 8. Finally, Push the cover forward and secure the cover



9. You may now connect all the cables and power on the DVR unit.

B. Device Connection



Pen drive and external hard disk must be FAT32 format.



All connected devices have their own power supply are necessary.

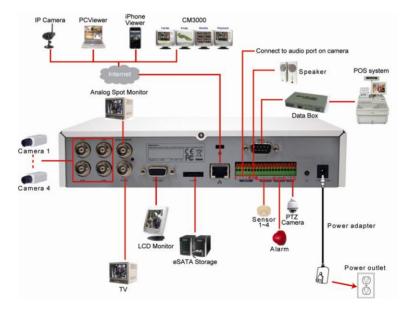
■ EH1004H-4 Nano/Nano⁺



- EH1004H-4 Nano/Nano⁺ support both Analog and IP camera in 4 channels.
- 1.3 MP with H.264/MPEG4/ MJPEG on the first 4 channels and 2.3MP with MJPEG on the 1st channel for IP cam connection.

The back panel of the EH1004H-4 Nano/Nano⁺ user can connect up to 4 cameras in combination of analog and IP camera (EH1004H-4 Nano/Nano⁺ supports both analog and IP camera in 4 channels.). The DVR unit also can connect 4 sensor devices, 1 alarm devices, and output video to a LCD monitor.

Follow the illustration below to make the connection:



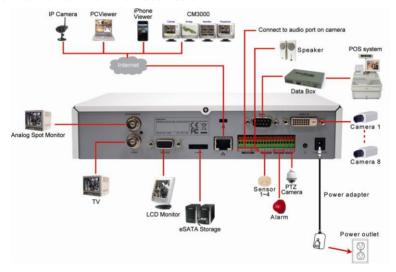
■ EH1008H-4 Nano/Nano⁺



- EH1008H-4 Nano/Nano⁺ only supports first 4 channels for IP camera connection.
- 1.3 MP with H.264/MPEG4/ MJPEG on the first 4 channels and 2.3MP with MJPEG on the 1st channel for IP cam connection.

The back panel of the EH1008H-4 Nano/Nano⁺ user can connect up to 8 cameras in combination of analog and IP camera (EH1008H-4 Nano/Nano⁺ only support first 4 channels for IP camera connection). The DVR unit also can connect 4 sensor devices, 1 alarm devices, and output video to a LCD monitor.

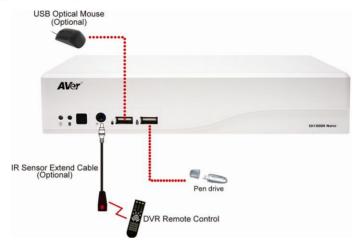
Follow the illustration below to make the connection:



■ EH1004H-4 Nano/EH1008H-4 Nano

For backup recorded video, plugging the pen drive or external hard disk through USB port that are located at front panel of DVR unit, and then, use the bundled software enables user to transfer, playback and segment the video.

Follow the illustration below to make the connection:



■ EH1004H-4 Nano⁺/EH1008H-4 Nano⁺

For backup recorded video, plugging the pen drive or external hard disk through USB port that are located at front panel of DVR unit, and then, use the bundled software enables user to transfer, playback and segment the video.

Follow the illustration below to make the connection:

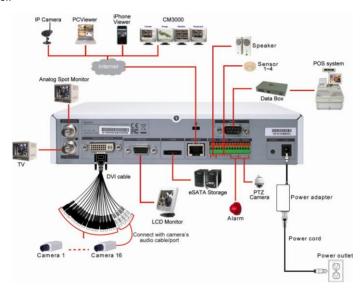


EH1116H-4 Nano

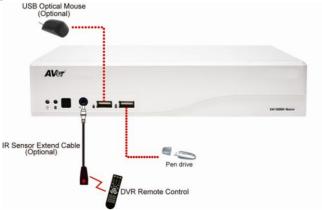


- All connected devices have their own power supply are necessary.
- EH1116H-4 Nano only supports first 4 channels (CH01~04) for IP cameras.

The back panel of the EH1116H-4 Nano user can connect up to 16 cameras in combination of analog and IP camera. The DVR unit also can connect 4 sensor devices, 1 alarm devices, and output video to a LCD monitor.



For backup recorded video, plugging the pen drive or external hard disk through USB port that are located at front panel of DVR unit, and then, use the bundled software enables user to transfer, playback and segment the video. Follow the illustration below to make the connection:



III. First Time Using the DVR Unit

- 1. Connect the mouse to DVR unit (through USB port).
- 2. Connect all necessary external devices.



DVR unit doesn't supply the power to connected external devices.

- 3. Plug the power to turn on the DVR unit.
- Please wait for a while until start up process is completed. And then, the preview screen will show up on surveillance screen.

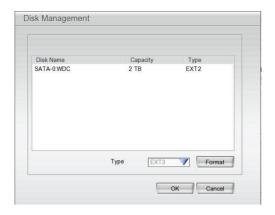


EH1008H-4 Nano/Nano* Preview UI

Format hard disk: If the hard disk is first time installed in the DVR unit, please format the hard disk.Following the below steps to format the hard disk.



- Before formatting hard disk, please stop recording.
- While formatting hard disk, the CPU usage will be near to 100% and might slow down the DVR system response.
- Click Setup and enter the password (If this is the first time, enter the default password [admin].
 The default ID will be admin).
- b. Click System \rightarrow Add



- c. Select the hard disk from list.
- d. Click Format button and click Start to begin formatting
- e. When formatting is done, click **OK**.
- Adjust time and date: Setup the DVR system date and time in order to have corrected recording time and date. Following the below steps to setup date and time:
 - Click Setup and enter the password (If this is the first time, enter the default password "admin".
 The default ID will be "admin").
 - b. Select System.
 - c. In Date and Time Setting, click Setting button of System Date and Time.
 - d. Select the Year and Month by click arrow button, click on the date to select the date. And adjust the time, and then, click **OK**.
- 7. Connecting the cameras: DVR supports IP and Analog camera.

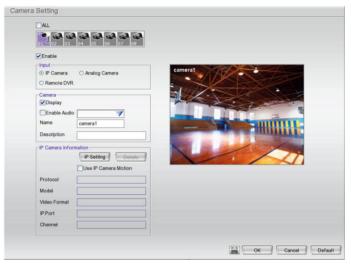
Analog camera

- a. Plug the video cable which included in package contents to audio port on DVR unit.
- b. Connect the analog camera video cable to video-in port.
- c. Click Setup → Camera
- d. Select camera channel and mark **Enable** to enable the channel.
- e. Select Input as Analog Camera.
- f. In Camera section, mark Display to allow the live video of camera to display on surveillance screen. And then, enter the Name and Description of the channel.
- g. Enable Audio: select the audio input channel. Mark Enable Audio to record the sound. For example: The camera 1 is connected with audio channel 2, then, user needs to select audio channel 2 as camera 1's audio channel (audio connection refer to Device Connecting section).
- h. Adjust the bright, contrast, hue, and saturation of the camera.
- i. Click OK.

■ IP camera



- -EH1008H-4 Nano/Nano⁺ and EH1116H-4 Nano only supports first 4 channels (CH1~4) for IP camera.
- -EH1004H-4 Nano/Nano+ supports both analog and IP camera in 4 channels.
- -1.3 MP with H.264/MPEG4/ MJPEG on the first 4 channels and 2.3MP with MJPEG on the 1st channel for IP cam connection.
- a. Click Setup → Camera.



- b. Select camera channel (1~4) and mark **Enable** to enable the channel.
- c. Select Input as IP Camera.
- d. In **Camera** section, mark **Display** to allow the live video of camera to display on surveillance screen. And then, enter the **Name** and **Description** of the channel.
- e. In Camera Information section, click IP Setting for detail setting.



- f. In IP Camera Setting window, click **Protocol** radio button, then, select **Protocol**, **Mode**, and **Video Format**. User also can click **Auto Search** button to find the IP cameras that can be detected on your LAN network.
- g. Enter IP address in IP Camera site column or enter the URL of IP camera.
- h. Enable **Authentication** and enter **ID** and **password** if IP camera's access authority is required.
- i. Click **OK** to save the setting.
- j. When the IP camera has connected, user should see the camera information of **Protocol**, **Model**, **Video Format**, **IP port**, and **Channel**.
- k. To connect another IP camera, follow the above steps.

IV. Recording the Live Video

While monitoring, user can click **Record** (button to save the live video on hard disk and recorded video can playback in local site.

To stop recording, press **Record** button again and enter the authentication password.



EH1008H-4 Nano/Nano* Preview UI

V. Familiarizing the Buttons in Preview Mode



EH1008H-4 Nano/Nano* Preview UI

Name

Function

(1) Logout

- **Reboot:** To restart the DVR system. It is required to enter the password
- Power Off: To shut down the DVR system. It is required to enter the password
- Login: Using different ID to login to DVR system.
- Cancel: To return to DVR application.



(2) Split Screen Mode Select from four (4) different split screen types to view all the camera, or one camera over the other or alongside on a single screen. It also allows you to switch and view different camera number.



- When you are in single screen mode, Right click and Drag a square on the area you
 want to enlarge. Right-click on screen again, the screen view will back to normal view.
- When you are in full screen mode, partial enlarges does not support.
- (3) Record

Start/stop video recording.

Name	Function
(4) EMap	Display the map in each area, and the location of camera/ sensor/ relay and the warning.
(5) Network	Enable/disable remote system access. This feature allows you to access DVR server from a remote location via internet connection. The default is disabled.
(6) Setup	Configure the system settings.
(7) PTZ	Access PTZ control panel.
(8) Preview	Switch to Preview mode. This allows you to view live camera display.
(9) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(10) Status bar	Display the current date, time, hard disk free space and temperature of unit.
(11) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(12) Snapshot	Capture and save the screen shot in *.jpg format.



Please plug the USB pen drive to DVR server before press **Snapshot** button.

(13) Event log	Show the record of activities that take place in the system.
(14) AutoScan	Start/Stop video screen cycle switch.
(15) Full screen	View in full screen. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon



Click to exit from full screen mode

When you switch to full screen in multiple-screen mode, **Left** click to toggle to only display one of the video in the multiple-screen mode or all.

	to only display one of the video in the multiple-screen mode or all.	
(16) Alarm	Alert and display warning info.	
(17) Virtual	Click to enable virtual keyboard.	

Name	Function
Keyboard	

VI. Playback Recoded Video

1. In preview mode, click the Playback button.



EH1008H-4 Nano/Nano* Preview UI

- 2. In Time and Date Selection window, select the date and time to playback. The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 08 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.
- 3. After selected the date and time, click **OK** to start playback. User will see the selected video file playback on the screen.



Playback Mode

VII. Familiarizing the Buttons in Playback Mode

To switch in Playback mode, click **Playback** button at the lower right corner of Preview mode.



EH1008H-4 Nano/Nano+ Playback UI

	•
Name	Function
(1) Split Screen	Select from 4 different split screen type to playback the recorded video file
Mode	of all the camera, or one camera over the other or alongside on a single
	screen.
(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at
	any location of the track.
(3) Hour Buttons	Select and click to playback the recorded video file on the specific time
	frame.
The Hour I	buttons represent the time in 24-hour clock. The blue bar on top of the hour
button indi	cates that there is a recorded video file on that period of time. While the red bar
indicates t	hat you are currently viewing the recorded video file.
(0) 51 1 1	Pagin, Mayo at the haginning of the recorded video file
(4) Playback	Begin: Move at the beginning of the recorded video file.
Control Buttons Previous: Go back to the previous frame.	

16x, 8x, 4x, 2x, 1x, 1/2X, 1/4X.

Play: Play the recorded video file.

Rewind: Wind back the recorded video file. **Pause:** Briefly stop playing the recorded video file.

Slower: Play the recorded video file at the reduce speed from 64x, 32x,

-				
Name	Function			
(4) Playback	Faster: Play the recorded video file at the speed of 2x, 4x, 8x, 16x, 32x or			
Control Buttons	64x.			
	Next: Go to the next frame.			
-	End: Go to the end of the recorded video file.			
(5) Date	Select the date on the calendar and the time from 00 to 23 to where to start			
	playing the recorded video file.			
The number	ers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to			
04 or 08 rep	present the camera ID. The blue colored column indicates that there is a			
recorded vi	deo file on that period of time. While the red colored column indicates on			
where to st	art playing the recorded video file.			
(6) Preview	Switch to Preview mode.			
(7) Playback	Switch to Playback mode to view the recorded video file.			
(8) Status bar	Display the recorded date, time and play speed.			
(9) Camera ID	Show the number of cameras that are being viewed. When you are in single			
	screen mode, click the camera ID number to switch and view other camera.			
(10) Export	Export includes Snapshot, Output Video Clip, and Backup function.			
	Snapshot: Capture and save the screen shot in *.jpg format.			
	 Output Video Clip: Save the segmented file in *.dvr format to external 			
	USB storage device.			
	Backup: Save the playback file to USB device or DVD disk			
(11) Segment	Keep a portion of the recorded video.			
	 Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click 			
	Segment to set the begin mark.			
	Use the Playback Control buttons or drag the bar on the playback			
	progress bar and pause on where you want to end the cut. Then, click			
	Segment to set the end mark. To cancel segmentation or set the			
	segment marks from the start, click Segment button again.			
	3. Click Export button → Output Video Clip to save the video segment			
	to the USB storage device.			
(12) Full screen	View in full screen. To return, press the right button of the mouse or ESC on			
	the keyboard or click the arrow icon.			
	When you switch to full screen in multiple-screen mode, Left click to toggle			
	to only display one of the video in the multiple-screen mode or all.			
(13) Event log	Show the record of activities that take place in the system. To filter the			
	records, select and click the option button to only display Event, System,			
	Operation, Network or All.			

Name	Function
(14) Bookmark	Mark a reference point when reviewing the recorded video file to which you
,	may return for later reference.
	1. Click Bookmark button
	2. In the Bookmark dialog box, you may do the following:
	- Add to create the new reference mark in the bookmark list.
	- Edit to change the mark description.
	- Delete to remove the selected reference mark in the list.
	- Delete All to remove all the reference marks in the list.
	 Exit to close Bookmark dialog box.
	3. Select and click one in the bookmark list to review the file.
(15) Find Next	Search for the next event or changes in the motion detector frame. You can
(10) 1 112 11211	use this when you are using Event Search function.
(16) Event Search	Search from the recorded activities that were recorded in event log (i.e.,
` '	Sensor, Motion, Video Loss).
(17) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are
(, =	capturing motionless picture and #2, if it captures lots of movement.
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